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## PRASHANTH MOLAKALA

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[Portfolio](#)

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### Summary

Three years of experience in software development, passionate in thinking about the feasibility to design and implementation of creative, flexible, scalable and usable products. In three words I am versatile, precise and tireless.

### Experience

#### Tempus, Chicago, IL

#### Role: Software Engineer

Feb 2018 - Present

Digitalize cancer patient's data and analyze it displaying meaningful visualizations and reports

- Understand business requirements and design the tasks accordingly using agile

- Design and Build patient search engine using Elasticsearch from scratch

- Implement rolling index logic for storing data in Elasticsearch and add caching mechanism using Redis cache

- Optimize patient search engine (older version) by five times faster adding complex MySQL queries and lazy loading on the UI

- Achieved team recognition award for fixing several complex prod bugs in less amount of time

- Create validation script for data migration, visualizing percentage of data migrated and mismatched fields

- Work closely with product and UX to redesign the Portal and mobile app

- Fix and add nightwatch tests with Jenkins hook to report test failures through email

- Create an endpoint to fetch and process data in a python flask service integrated to MySQL

- Tools: Elasticsearch, Redis, ReactJS, ImmutableJS, Async await, MySQL, Jenkins, NightwatchJS, Jest, Python flask

#### Uptake, Chicago, IL

#### Role: Software Developer

Sep 2016 – Jan 2018

Harness the power of IoT data to help people and machine work better, smarter and faster by reducing downtime

- Worked on various projects (teams) with wide variety of technologies through agile methodologies

- Work closely with product and UX teams to understand the project requirements and prepare architecture design

- Symphony: Data Ingestion Tool

  - Build UI components to visualize and monitor the metrics of data pipelines using AngularJS

- Data Mapping Tool (DMT)

  - Built UI components to create schemas using the source fields for data mapping, user management using ReactJS

  - Contributed in the development of react based expandable-tree component, which was built for this project

- Developer Portal

  - Used Apigee and Drupal tools to build dev portal for publishing documentation of end points

  - Attended Google Apigee workshop and created API proxies for endpoints with specified requirements

  - Ran ruby script to convert swagger JSON into custom JSON to include headers and default responses

  - Communicated and provided technical support to various teams to publish and maintain their endpoints

- Cat Asset Advisor (CAA)

  - UI components for monitoring the health of equipment's, listing events and recommendations on them using AngularJS

  - Contributed in development and deployment of pdf service using NodeJS, Docker and Jenkins

  - Built Grafana dashboards for monitoring and alerting errors with micro-services

- Tools: AngularJS, ReactJS, Gulp, Webpack, Jasmine, Mocha, Chai, Grafana, Mesosphere, Jenkins, Bitbucket, Docker, Apigee

#### Vox Astra Inc, Marlborough, MA

#### Role: Software Engineering Intern

May 2015 - Dec 2015

Provide services and solutions to several clients

- Built a web application for HR Management of the firm

- Developed entire JSP pages utilizing REST API's using AJAX calls

- Written SQL queries, stored procedures for MySQL database

- Technologies: Java, JSP, AJAX, REST API, MySQL

### Education

Illinois Institute of Technology, Chicago, Illinois

Masters in Computer Science

GPA: 3.7/4

May 2016

Jawaharlal Nehru Technological University, Hyderabad, India

Bachelors in Electronics

GPA: 3.5/4

May 2014

## Technical Proficiency

Languages	: ES6, JavaScript, TypeScript, Java, Python, C++
Databases	: Mongo DB, MySQL, Elasticsearch, InfluxDB
Font-End	: ReactJS, AngularJS, Socket.io, Bootstrap, Sass, HTML, CSS, JSP, AJAX, JQuery
Font-End	: ImmutableJS, Async await, D3-charts, react-chartjs
Back-End	: Node.js, Express.js, Hapi.js, Mongoose ODM, Java Spring, Hadoop, Drupal, Flask
Tools	: NPM, Yarn, Webpack, Bower, Gulp, Jenkins, Grafana, Docker, Bitbucket, Github
Testing	: Mocha, Chai, Jasmine, Sinon, Jest, Junit, Protractor, Nightwatch

## Projects

<b>“Lazy Composer”</b> <a href="https://www.npmjs.com/package/lazy-composer">https://www.npmjs.com/package/lazy-composer</a> [personal project]	May 2018
Node-cli to clone, install dependencies and bootstrap multiple apps at one place and run together	
<b>“Smart Energy Forecaster” a business model application which predicts energy generation (hackathon)</b>	Nov 2017
Built an Angular based web app interacting to a Java Spring service	
Run data science models written in Python to process and forecast energy usage	
Energy prediction is based on solar panels and wind turbines considering the weather prediction for UV index and windspeed	
Created a web socket to show live energy usage and forecast data displayed on the FE using High charts	
<b>“Lunch Time” an Alexa skill (personal project)</b>	Nov 2017
Published an Alexa skill on amazon which recommends the top cuisines within a radius of a given city	
<b>“Expandable Tree” a React Component (Uptake)</b>	Oct 2017 - Nov 2017
Collaborated on the development of a React based component called expandable-tree	
Expand / Collapse multi-level (children) nodes in a tree	
Capable to fetch and append the children level data when the node is expanded from an API call	
<b>“Unstructured Pipelines” a data pipelines application (hackathon)</b>	Aug 2017 - Sep 2017
Built an Angular based web app interacting to a Scala, Kafka services and Elasticsearch as the database	
Multi pipelines to process prescription images and fetch text from them and store in DB through Kafka	
<b>“Upflow” a QA forum application (hackathon)</b>	May 2017
Built an Angular based web app interacting to a Java Spring service and Elasticsearch as the database	
Enterprise level platform for QA forum with capability of slack integration to search for answers	
<b>“Spice Castle” a Web / Hybrid Mobile Application for a Restaurant (personal project)</b>	Jun 2015 - Jan 2016
Built an Angular based Single Page Web Application and a Hybrid Mobile App as part of the capstone for	
Created a backend REST API using Nodejs, Express.js which stores data into MongoDB	
Performed unit testing as well as end to end testing of the web application	
Tested the Mobile App by running it on Apple iphone 6s, Nexus 5 and Moto X mobile devices	
<b>“GoShop” an Android Mobile Application for Grocery delivery (academic project)</b>	Dec 2015 - May 2016
Developed an android mobile application for grocery delivery as part of a final project during Master’s under prof. Zipheng Hao.	
Implemented database operations to perform CRUD operations on a centralized MySQL database on AWS.	
Reviewed and tested the PR and solved merge conflicts during integration on GitLab.	
<b>“HotelPedia” a Web Application for Hotel Resrvation (academic project)</b>	Dec 2015 - May 2016
Developed a web app for hotel reservation as part of a final project during Masters under prof. Atef Barder.	
Designed the front end using jsp pages and integrated with backend, the whole application was built using MVC architecture.	
Implemented database operations using mongo queries to handle data from MongoDB.	
<b>Data Analytics of weather in Heathrow using Hadoop (personal project)</b>	Jul 2015 - Sep 2015
Created a Hadoop cluster and storage account using Azure HDInsight, also created an Azure SQL database server	
Pig script to load and filter the raw log data which consists of structured and unstructured data	
Hive script to insert the filtered data into tables and summarize the data by grouping into years and months	
UDF’s in python to convert temperatures from Celsius scale to Fahrenheit	

Uploaded all these files and raw logs to the hdfs using Azure-CLI  
Oozie workflow xml and defined the job properties to run all the Pig, Hive scripts on the Hadoop cluster  
Used Sqoop export command to transfer data from hdfs to SQL database

**Querying with Transact-SQL (personal project)**

Jun 2015 - Jul 2015

SQL queries for fetching the data from Azure SQL database according to the given requirements  
Pivoting data from two tables and filtering data at multiple levels using functions  
Gained a Microsoft honor code certificate for completing the course Querying with Transact SQL on edX

**Certifications**

**Full Stack Web Development**

[www.coursera.org/account/accomplishments/specialization/RRAYVRH2V6XS](https://www.coursera.org/account/accomplishments/specialization/RRAYVRH2V6XS)

Dec 2015 - Jun 2016

Completed the six-course specialization, which included a capstone project, on Coursera with The Hong Kong University of Science and Technology under prof. Joggesh. K. Muppala and prof. David Rossiter.